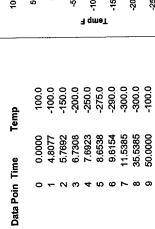
Lower Brake Component Lower Brake Component Temperature to Ambient Hold Brake Component Approximately -300°F Approximately 300°F (Cool-Down Stage) (Heat Treat Time) (Descent Stage) Temperature to Temperature at Lower Brake Component Temperature to Ambient and Heat Again to 300°F Raise Brake Component (3rd Heat Treat Time) Approximately 300°F Processing Chamber Temperature to (Ascent Stage) Introduce Liquid Nitrogen Into 1/3 Cryogenic Lower Brake Component and Heat Again to 300°F **Femperature to Ambient** Hold Brake Component (2nd Heat Treat Time) Place Into Cryogenic Approximately -300°F Processing Chamber Component and **Provide Brake** Temperature at (Stay Time)

DEEP CRYOGENIC TEMPERING OF BRAKE COMPONENTS

Figure 1

Time (HR) Temp (F)



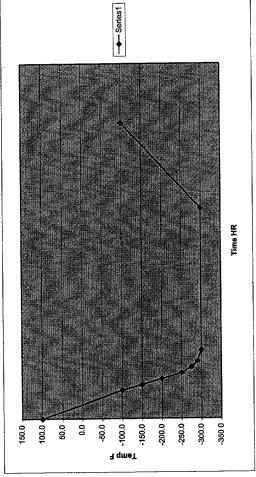


Figure 2



70.0	280.0	290.0	300.0	300.0	70.0	70.0	280.0	290.0	300.0	300.0	70.0	70.0	280.0	290.0	300.0	300.0	70.0
0.00	15.00	17.50	20.00		100.00	160.00	175.00	177.50	180.00	240.00	260.00	320.00	335.00	337.50	340.00	400.00	420.00

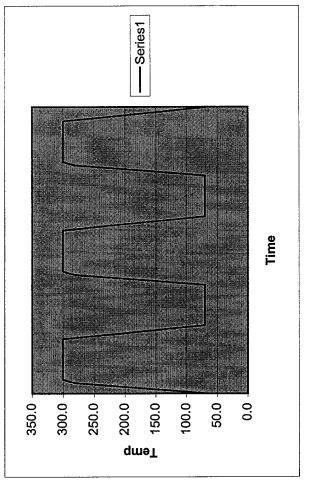


Figure 3